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Role of Training in Emergency Preparedness

Lisa McCormick, MPH
Ziad Kazzi, MD
D. Alan Veasey, MPH

Collaboration

UAB’s Comprehensive Training Network

CEIEP
Disaster Cycle

- Pre-event
  - Mitigation
  - Preparation
  - Planning
  - Training
- Post-event
  - Response
  - Recovery

Training

- Improves preparedness for disasters
  - Improves performance/outcomes
  - Maximizes potential of the individual worker
- Competency-based
- Needs Assessment
  - Online competency assessment tool

Training System Model
The Effect of September 11, 2001

- Training increased at different levels
  - EM residency programs:
    - 53 to 98% (Acad Emerg Med. 2007 Mar;14(3)) Bioterrorism training in U.S. emergency medicine residencies: has it changed since 9/11?
  - Other residency programs:
    - Family medicine and pediatrics
    - Emergency Medical Services
    - Nursing

Training Modalities Utilized

Face-to-face (07/08 Project Period)
- Food Safety and Defense Conference
- Management of Radiological Casualties
- Learning to Communicate during a Crisis
- Medical Command
- MCI START
- Explosion and Blast Injury Course
- Hazardous Materials Emergency Response Technician
- Confined Space Entry and Rescue

Training Modalities Utilized

Satellite based/Webcast – 1.5 Hr broadcast
- 9-28-06 Utilizing Government Resources in a Disaster 1,739
- 11-28-06 Planning and Execution of Disaster Response 5,119
- 12-4-06 Vulnerable Populations and Emergency Management 1,690
- 2-27-07 When the System is Overwhelmed: Protecting the Provider During Bio-disaster 5,571
- 3-22-07 Psychology of Terrorism and Psychological Counterterrorism: 7 Things You Should Know 6,370
- 3-27-07 Bombe, Explosions & Preparedness: A New Role for Public Health and First Responders 5,289
- 6-29-07 Mass Shelters: Environmental Health Issues 4,103
- 8-19-07 The Pharmacist role in disaster response 2,691
Training Modalities Utilized

- Web-based (Courses to be developed in 07/08)
  - Environmental Health and Shelters
  - Implementing the National Strategy for Pandemic Influenza
  - Planning and Execution for Disaster Response
  - Environmental Health Issues in Disasters
  - Risk Communication in Public Health Emergencies
  - Environmental Sampling and Monitoring in a Disaster
  - Mass Casualty Incident/Triage Awareness
  - Pharmacist Role and Interface with Public Health and Disaster Response
- Certificate Programs
  - JCDH Environmental Health
  - ADPH Emergency Preparedness

Discussion- and Operational-based Exercises

- Alabama School Closing Tabletops (12)
- MS Functional Pan Flu Exercises (10)
- Agricultural Incident Response Operational-based Exercise (1)
- AL & MS Cross Border Tabletop Exercise (2)
- MS School Closing Tabletop Exercise (24)

Evaluation

- Utilizing Kirkpatrick’s Taxonomy
  - Level I: Reactions to training
  - Level II: Knowledge gain
  - Level III: Individual level behavioral change – Application of knowledge gained
  - Level IV: Organizational level change
SITUATION CRITICAL #1: Residents with limited mobility need to be evacuated from their homes. You are the first responder in charge of this effort.

1. How do you assure that you have identified the necessary equipment to safeguard the well-being of an individual with mobility impairments?
   a. Ask the person who is being moved
   b. Look at the chart
   c. Ask the aide
   d. Just move them
   e. I don’t know

Level III
- Homeland Security Exercise Evaluation Program (HSEEP) Compliant Evaluations
  - After Action Reports / Improvement Plans

Are We Better Prepared?
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Summary:
- 34 states obtained higher scores
- 9 states remained the same
- 7 states declined
South Central Center for Public Health Preparedness

UAB School of Public Health

Tulane University School of Public Health and Tropical Medicine

Beginning 4th year of cooperative agreement
Grant and Contract supported training
Public, private, and governmental trainee populations
Prepare public health systems workers to plan for and rapidly respond to public health threats and emergency events.
Over 112,499 SCCPHP trainees to date
Over 210,023 contact hours

Other Activities

- IMPACT Internships
- Scholarship Program
- PREPARE e-Newsletter
- Monthly e-Announcement
- Level 3 Follow-up Evaluation
- Online Competency Assessment Tool
- Learning Management System (LMS)
- Overall Program Evaluation
City University Interdisciplinary Research Center, established in Fall 2006

**Mission:** The CEIEP will enhance the core areas of basic/fundamental research, translational research, clinical research, population and behavioral research, computer modeling and simulation, as well as training and education surrounding biodefense, emerging infections, emergency medical care, and public health disaster preparedness in Alabama and across the world.
Blast Injury and Explosion Courses

- Course funded by the Alabama Department of Public Health
- Collaboration between ADPH, South Central Center for Public Health Preparedness (SCCPHP) and CEIEP
- Twelve courses (2 in each Hospital Planning Region)
  - March - June 2007
- Material focuses on post-bombing response, clinical concerns, triage & victim management, and rehab

Live Radiation Drill @ UAB (2/15/2007)

- Exercise was based on a “Dirty Bomb” explosion at Linn Park
- 15 casualties presented to UED
- Coordinated by the CEIEP, along with 20 internal and external partners
- Financial support from Southern Nuclear
- Exercise tested ED triage, decontamination, and patient evaluation capabilities, as well as the responses of the Emergency Operation Center, UAB Media Relations, and UAB Police
- CEIEP submitted a final report to the UAB Hospital Emergency Management Committee highlighting lessons learned and future training needs

Focus Group Report

- In January, the CEIEP was tasked with bringing a diverse group of emergency response experts to UAB to participate in a focus group
- Participants recommended existing courses/training opportunities available to meet the needs of various response disciplines & but also identified current training deficiencies
2006 - 2007 PITF Activities

- "Pandemic Influenza Symposium" with over 200 participants and 15 speakers (December 8, 2006)
- Tabletop exercise that walked through a human H5N1 avian influenza pandemic scenario involving UAB's campus and hospital (December 11, 2006)
- Poster presentations at the recent "Seasonal and Pandemic Influenza Conference" in Arlington, VA (February 1-2, 2007)
- Alabama Public Television "For the Record" broadcast featuring the work of the UAB PITF (February 20, 2007)
- Prioritized recommendations for improving Pandemic Influenza preparedness at UAB and in Jefferson County to be submitted to UAB Central Administration

UAB WORKPLACE SAFETY TRAINING

School of Business
Center for Labor Education and Research

A 20 year history of Occupational Safety and Health training

- Grant-funded and fee supported training
- Public, private, and governmental trainee populations
- Quality, effective, practical, & safe training
- Over 78,000 WST trainees to date
Funding Sources and Trainee Populations

- NIEHS
  - CWA members
  - Native American Tribes
  - Public Safety Personnel
- HMEP/AEMA
  - Public Safety Personnel
- SCCPHP/ADPH
  - Public Safety, Public Health, & Hospital Personnel
- Fee-Supported
  - Industrial Sector
  - ADEM
  - USACOE

Training Staff

- Alan Veasey, MAEd, MPH
  - Director
- Kenny Oldfield, MSPH, CIH
  - Industrial Hygiene Services Manager
- Ted Krayer, MPH, CHMM
  - FF/EMT-B
  - Training Manager
- Roy Stover, BA
  - Instructor
- Sam Hansen, BS, FF/EMT-P, EFO, CFO, CET
  - Instructor

Courses Provided Include:

- Hazmat Awareness, Operations and Technician
- Hazmat Refresher
- Haz Waste Site Worker
- Haz Waste Site Refresher
- IMS/ICS
- Clandestine Lab Awareness
Courses Provided Include:

- WMD Awareness
- Air Monitoring
- Respirator Fit Testing Training
- Confined Space Entry
- Confined Space Rescue
- MCI Triage
- ODP Radiological Nuclear Awareness
- CDLS Basic Disaster Life Support

Major Accomplishments:

- Textbooks:
  - Confined Space Entry and Emergency Response, w/ CD-ROM
  - Effective Safety and Health Training
- WST Resource CD
- Magazine and Journal Articles
- Assistance with video productions

TRAINEE SAFETY AND TRAINING QUALITY ARE OUR TOP PRIORITIES!